NEURODIVERSITY

Embracing Human Differences



AGENDA

- What is neurodiversity?
- What does neurodiversity look like?
- Why is neurodiversity important?
- Benefits of neurodiversity.
- A different perspective on disability.
- Building neuro-inclusive society.
- Q&A

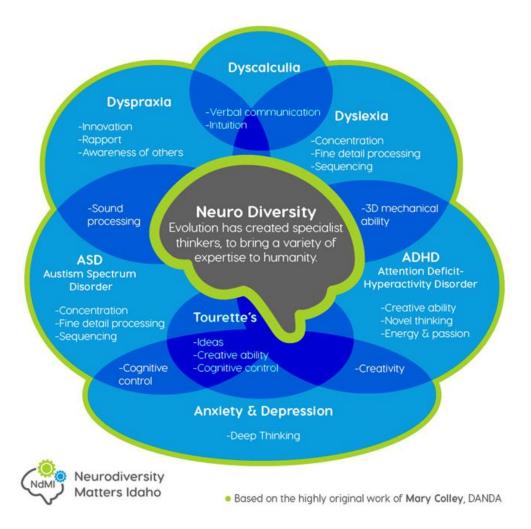


NEURODIVERSITY

The concept of neurodiversity provides a paradigm shift in how we think about mental functioning.

Instead of regarding large portions of the American public as suffering from deficit, disease, or dysfunction in their mental processing, neurodiversity suggests that we instead speak about differences in cognitive functioning.

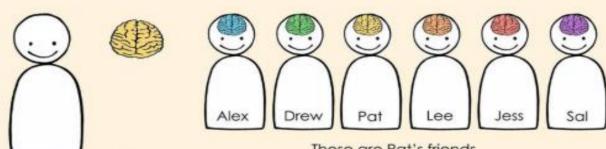




WHAT IS NEURODIVERSITY

- The term originated back in the late 1990's in reference to individuals with autism (ASD).
- The term has since expanded to include a broader range of neurological-based conditions such as; learning differences, (e.g. Dyslexia, ADHD, ASD) and mental disorders (e.g. anxiety, mood disorders, depression, bipolar), TBI's and other conditions.
- Neurodiversity asserts that atypical neurological development is a normal human difference that is to be tolerated and respected as any other human difference.

What is Neurodiversity?



This is They
This is Pat Pat's brain No two b
This

These are Pat's friends.
They all have brains too.
No two brains are exactly alike.
This is Neurodiversity.

Some people's brains are similar enough that they behave in ways that are categorised and labelled. Some of these labels are typical, schizophrenic, bipolar, autistic, and epileptic.



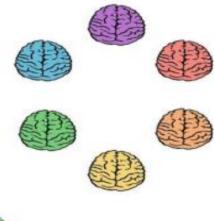
All of these labels (except "typical") indicate neurodivergence, that is, a deviation of a brain from society's expectation of normality



Not all neurodivergence is diagnosed, or even diagnosable.

This means that not all people who are perceived as neurotypical are in fact so.

Neurodivergence is neither "good" nor "bad." A person can be born with it, or it can be acquired. It is up to each neurodivergent individual to decide what help they desire.



neuro-

relating to nerves or the nervous system

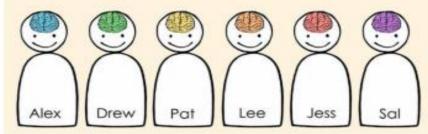
diversity

the state of being diverse

diverse

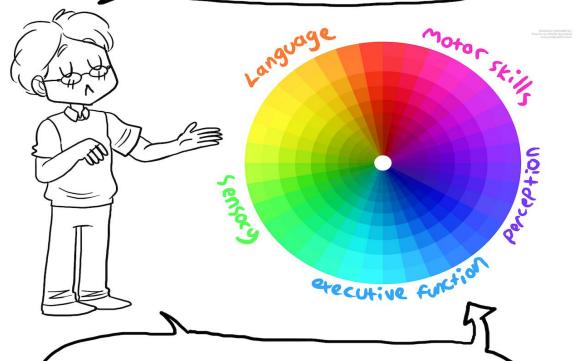
showing a great deal of variety; very different





Pat and friends are comfortable with their individual divergences and their diversity as a group. They support each other's rights to self-determination, and they value the strengths they each bring to their group of friends.

The truth is though, someone who is neurodiverse in some areas of their brain, will also be no different to your average person in other areas of their brain.



You see, the autistic spectrum looks something more like this.

NEUROLOGICAL VARIATIONS



- Social and Communication
- Cognition Thinking
- Executive Functions
- Emotional Response
- Information Processing: auditory, verbal and sensory
- Motor skills

Neurodiversity is about abilities being out of balance

Whilst neurodiverse people may struggle with:



Organisational skills



Planning and prioritising



Time keeping



Background noise

They may be brilliant at:



Connecting ideas



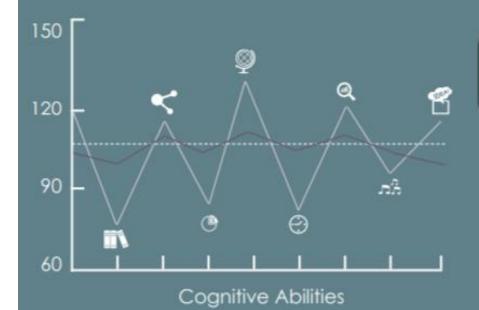
Thinking outside the box



3Dimensional thinking



Seeing the big picture



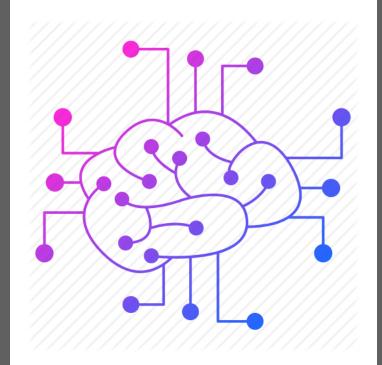
Neurodiversity is not tied to IQ

Overall IQ can be anywhere in the range. The key difference is the spikes in the profile

UNEVEN ABILITIES

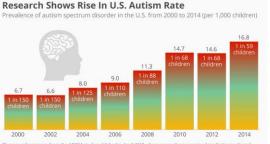
NEURODIVERSITY A GROWING POPULATION

- In the past 60 years the number of categories of psychiatric illnesses has tripled.
- 1 in 5 students age 13-18 live with a mental health condition and 50% of the US adult population is projected to be diagnosed with a mental health condition by age 40.
- 1:59 are diagnosed with ASD (Autism Spectrum).
- 6.1% of children are being treated for ADHD and 4.4 % the adult population has been diagnosed with ADHD.
- 1 in 5 children in the US have learning or thinking differences.
- 1 in 16 public school students have IEP's for learning or other health issues.



1 in 5 U.S. adults experience mental illness each year
1 in 25 U.S. adults experience serious mental illness each year
1 in 6 U.S. youth aged 6-17 experience a mental health disorder each
vear

Suicide is the $\mathbf{2}_{\text{nd}}$ leading cause of death among people aged 10-34



These numbers come from the ADDM study published in April 2018 where researchers examined medical records and when available, education records of 8-year old tolkifer in inselect locations. The study analyzed the prevalence of auties spectrum disorder in designated research sites in Arizona, Arkansas, Colorado, Georgia, Maryland, Minnesota, Missou Meetersen of April 2018 of the Study of the S

© (†) (=) @StatistaCharts Sources: CDC, ADDM Study (2018)

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Celebrities who are Neurodiverse





ldo Kedar

Autism









Tom

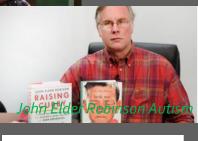
Cruise Dyslexia

















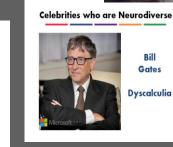
Dan Aykroyd

Tourette's

Syndrome

Celebrities who are Neurodiverse











Celebrities who are Neurodiverse

Zayn Malik



Robbie Williams ADHD



Sir Richa

Bransor

Dyslexic





Scott

Kelly

ADHD



what is a "model" of disability?

In this case, "model" means a certain way of thinking about disability.

what is the Social Model of Disability?

To understand this concept, it's useful to compare it to the "medical model" of disability.

Medical Model



Social Model



The person is disabled by the abnormalities and deficits of their own body and/or brain.



Disabled people are broken, abnormal, or damaged versions of human being and should be fixed, cured, and/or prevented.



Since the disabled person's impairments prevent them from functioning normally, they need caregivers and professionals to make decisions for them. The disabled person is an object of charity and receiver of help.



The disabled person should adjust to fit into society, since they are the one who is not normal. Being part of society means rising above disability.



The person is disabled by their environment and its physical, attitudinal, communication, and social barriers.



Disabled people are normal, valid varieties of human being and should have equal rights and access to society, just as they are.



Since the disabled person is inherently equal, they have a right to autonomy, choice, and free and informed consent in their own lives.



The disabled person should be supported by society, because they are equal and have a right to inclusion. Their community should adjust its own barriers and biases.

A DIFFERENT PERSPECTIVE ON DISABILITY



Learn about neurodiversity and brain-based differences.



Simplify access to information, programs, services.



Accept differences and stop trying to fix them.



Align programs and services around individual needs versus a diagnosis or label.



Support and accommodate differences versus fix behaviors.



Embrace a growth mindset to facilitate individual growth.



Treat the whole person, not just a group of symptoms or conditions.



Adopt best practices to affirm strengths and support individualized needs.



Increase collaboration across the system of care.



Enable individuals to work in their strength zones.

NEURODIVERSITY AND INCLUSION

RETHINKING EDUCATION

Figure 1. A Tale of Two Special Education Paradigms

	Elements of Deficit-Based Special Education	Elements of Strengths-Based Special Education (Grounded in Neurodiversity)
Focus	Disability	Diversity
Assessment methods	Testing to detect deficits, disorders, and dysfunctions	Assessing strengths and challenges
Instructional approaches	Remediating weaknesses	Building on strengths and using them to overcome challenges
Theoretical foundations	Genetics, neurobiology	Evolutionary psychobiology, social and ecological theory
View of the brains of students with special needs	In many cases, the brain is seen as damaged, dysfunctional, or disordered	Part of the natural human variation of all human brains
Program goals	Meeting instructional objectives	Developing human potential
Student goal	Learning to live with your disability	Learning to maximize your strengths and minimize your weaknesses
Student self- awareness	Explaining students' disabilities to them using machine-based metaphors	Helping students value their diverse brains using growth mindset, neuroplasticity, and "brain forest" metaphors

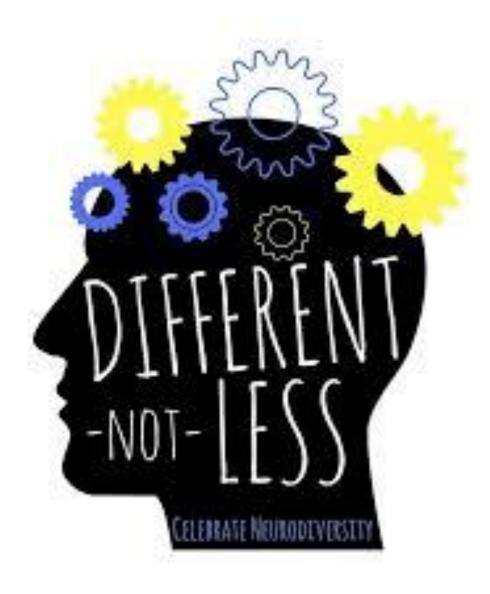
INCLUSIVE EDUCATION

- Modify recruiting and hiring practices
- Offer more flexible work options/schedules
- Make environmental modifications
- Provide access to tools/technologies work productivity
- Workforce neurodiversity education
- Content accessibility (UDL compliant)
- Access to coaching and mentors
- Job carving to align to employee strengths

INCLUSIVE WORKPLACE

- Use thoughtful and respectful language
- Identify and acknowledge potential unconscious bias
- Ask questions, make no assumptions and LISTEN
- Just because you can't see someone's differences/disabilities doesn't mean they don't exist
- Simplify processes and systems wherever possible
- Provide information in multiple formats
- Value diversity it enriches our lives
- Create supportive environments

INCLUSIVE COMMUNITIES



NEURODIVERSITY ENRICHES OUR COMMUNITY

NEURODIVERSITY TERMINOLOGY

Neurodiversity: the biological reality of infinite variation in human neurocognitive functioning and behavior, akin to biodiversity in the natural world. The term is now being used to describe the fast-emerging sub-category of workplace diversity and inclusion focused on including neurodivergent people.

Meurodiversity paradigm: a perspective on neurodiversity that suggests neurodiversity is a result of natural human variation, at that there is no one "normal" brain type. Stands in contrast to the highly medicalized perspective that views Autism, ADHD, and others as disorders to be treated.

Meurodivergent: having cognitive functioning different from what is seen as "normal". Neurodivergence can be genetic, innate or acquired (brain trauma)

Neurodivergence: state of being neurodivergent. It's worth noting that a common misuse of language is to talk of 'an individuals neurodiversity' versus an individuals neurodivergence.

Neurodiverse: this term is often used instead of 'neurodivergent' yet is potentially problematic. A group can be neurodiverse – an individual is better described as neurodivergent.

Neurominority: a group such as people with autism or dyslexia, that share similar innate brain variations. There is significant variation within each neurominority.

Neurotypical: given the biological fact that there is no such thing as a "normal" brain, neurotypical is best thought of as 'not neurodivergent' – that is, with parameters of neurocognitive style that have not been either medically defined as 'disorders' or culturally defined as 'neurodivergent'. It's important not to draw simple lines in the sand between 'neurotypicals' and neurodivergent people – human neurodiversity is a highly complex spectrum, in which everyone sits.

THANKYOU

• Lori Uria: President and Founder of:

➤ Neurodiversity Matters and Raising Atypicals Community

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